

an interface component for a user to view and modify dynamic routing protocol features of the router in real-time, wherein the router utilizes a real-time operating system, the interface component ~~presenting~~ displaying the features of the router to the user as a hierarchical tree having attributes that store values relating to the IP router routing protocols and components that represent functionality of the IP router routing protocols, the components containing one or more sub-components or attributes, ~~wherein the attributes being~~ [[are]] modifiable within a single initialization of the router, and the hierarchical tree displaying the attributes, the components, and the subcomponents to the user. (page 5 of figure 2.)

2. (Original) The router of claim 1, wherein the interface component is accessible by a user through a command-line interface.
3. (Original) The router of claim 1, wherein the interface component is accessible by a user through a graphical interface.
4. (Original) The router of claim 1, wherein the interface component updates the router component in real-time to reflect changes made by the user to the attributes or the components.
5. (Original) The router of claim 1, wherein the router is a dedicated hardware router.
6. (Original) The router of claim 1, wherein the router is a general purpose computer.
7. (Currently amended) A method comprising:
implementing IP routing protocols for data processed by a router, wherein a workstation functions as the router via the IP routing protocols;

organizing features relating to routing protocols of [[a]] the router into a hierarchically formatted component tree, the features including attributes that store values relating to the IP routing protocols and components that represent functionality of the IP routing protocols;

displaying a portion of the hierarchically formatted component tree to a user in response to a first command from the user, wherein the hierarchically formatted component tree displays the attributes, the components, and sub-components of the components;

modifying the component tree in response to a second command from the user, wherein the attributes are modifiable within a single initialization of the router; and

updating, in real-time, features of the router relating to the routing protocol that were changed by the user when modifying the component tree, wherein the router utilizes a real-time operating system.

8. (Original) The method of claim 7, wherein the hierarchical component tree includes attributes that store values relating to the routing protocols and components that represent functionality of the routing protocols, the components containing one or more sub-components or attributes.

9. (Original) The method of claim 7, wherein the first command is a display command.

10. (Original) The method of claim 7, wherein the second command is a set preference command.

11. (Original) The method of claim 7, wherein the user inputs the first and second commands via a command-line interface.

12. (Original) The method of claim 7, wherein the user inputs the first and second commands via a graphical interface.

13. (Currently amended) A computer readable medium containing instructions for execution by a processor, the instructions, when executed:

implementing IP routing protocols for data processed by a router, wherein a workstation functions as the router via the IP routing protocols;

organizing features relating to routing protocols of [[a]] the router into a hierarchically formatted component tree, the features including attributes that store values relating to the IP routing protocols and components that represent functionality of the IP routing protocols;

displaying a portion of the hierarchically formatted component tree to a user in response to a first command from the user, wherein the hierarchically formatted component tree displays the attributes, the components, and sub-components of the components;

modifying the component tree in response to a second command from the user, wherein the attributes are modifiable within a single initialization of the router; and

updating, in real-time, features of the router relating to the routing protocol that were changed by the user when modifying the component tree, wherein the router utilizes a real-time operating system.

14. (Original) The computer readable medium of claim 13, wherein the hierarchical component tree includes attributes that store values relating to the routing protocols and components that represent functionality of the routing protocols, the components containing one or more sub-components or attributes.

15. (Original) The computer readable medium of claim 13, wherein the first command is a display command.

16. (Original) The computer readable medium of claim 13, wherein the second command is a set preference command.

17. (Original) The computer readable medium of claim 13, wherein the user inputs the first and second commands via a command-line interface.

18. (Original) The computer readable medium of claim 13, wherein the user inputs the first and second commands via a graphical interface.

19. (Previously presented) The router of claim 1, the router operating after an initial initialization, and the attributes being modified after the initial initialization, but before a subsequent initialization.

20. (Previously presented) The method of claim 7, further including initializing the router, wherein the modifying of the component tree occurs after the initialization, but before a subsequent initialization.

21. (Previously presented) The computer readable medium of claim 13, wherein the instructions further result in initializing the router, wherein the modifying of the component tree occurs after the initialization, but before a subsequent initialization.

22. (New) The router of claim 1, wherein one of the attributes relates to a physical connection used by the interface component, and has values indicating networks.

23. (New) The router of claim 1, wherein one of the attributes describes a cost to transmit a packet to the interface component.

24. (New) The router of claim 1, wherein one of the attributes indicates a priority of a dynamic routing protocol designated router election for a local network.

25. (New) The router of claim 1, wherein one of the attributes specifies how often the router should contact neighbor nodes in order to maintain a live connection.

26. (New) The method of claim 7, wherein one of the attributes relates to a physical connection used by an interface component of the router, and has values indicating networks.

27. (New) The method of claim 7, wherein one of the attributes describes a cost to transmit a packet to an interface component of the router.

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28. (New) The method of claim 7, wherein one of the attributes indicates a priority of a dynamic routing protocol designated router election for a local network.

29. (New) The method of claim 7, wherein one of the attributes specifies how often the router should contact neighbor nodes in order to maintain a live connection.

30. (New) The computer readable medium of claim 13, wherein one of the attributes relates to a physical connection used by an interface component of the router, and has values indicating networks.

31. (New) The computer readable medium of claim 13, wherein one of the attributes describes a cost to transmit a packet to an interface component of the router.

32. (New) The computer readable medium of claim 13, wherein one of the attributes indicates a priority of a dynamic routing protocol designated router election for a local network.

C² 33. (New) The computer readable medium of claim 13, wherein one of the attributes specifies how often the router should contact neighbor nodes in order to maintain a live connection.
